Cornell Notes	Topic/O	bjective: Neutralization Reactions	Name:	
	And Ti	trations	Class/Period: Chemistry	
Decades of College Dreams			Date:	
Essential Question: What happens when acids and bases are mixed?				
How can mixing acids and bases together help you to determine molarity?				
Questions:		Notes:		
What is a				
neutralization				
reaction?				
		A Neutralization	Reaction	
		Acid Base	Salt Water	
		HCl(aa) + NaOH(aa)	$\rightarrow NaCl(aa) + H_2O(l)$	
		CIT changes place with OHT		
		Cr changes place with Or		
Where do the	ione			
need in the ealt				
come from?				
Predicting Products of Neutralization Reactions		on Reactions		
Predict the products of the following neutralization reactions:		ation reactions:		
1. HCI + KOH →				
		2. HNO_3 + NaOH \rightarrow		
		3 . H ₂ SO ₄ + 2NaOH →		

How can neutralization reactions be used to determine molarity?	Titration: Base Equivalence Point:
Why is an indicator	Acid +
used during a	
titration?	
Why is molarity	
Important to	
consider when	
acid or base?	H ⁺ O Na ⁺ Cl ⁻ O H ⁻ Mixture of the 2 drops 1 drop 1 drop 1 drop 1 drop 2 drops 0.5 M NaCl with leftover dissolved NaOH

How is	A 100mL sample of sulfuric acid, H_2SO_4 , is titrated with 2.0M		
stoichiometry and	NaOH. After 50 mL of NaOH are added, the indicator changes		
molarity used to	color at pH 7. What was the starting concentration of the H_2SO_4 ?		
calculate the	1. Write a balanced equation		
concentration			
of an unknown?			
	2. Use the molarity equation to calculate the number of moles of		
	base used		
	3 . Determine the mole ratio between the acid and the base and		
	then multiply that by the number of moles of the base used in		
	the titration to determine the moles of acid		
	4. Use the molarity equation with the volume of acid and moles		
	calculated		
C			
Summary:			